

U. S. Government

Subject: Quotation for High Speed Tape Reader/Punch with
Interface Chassis

Gentlemen:

25X1 [redacted] is pleased to submit their offer
25X1 to provide one High Speed Tape Reader/Punch with a special interface chassis
at a price of [redacted]

This price includes delivery and installation, and is firm for a
period of ninety (90) days.

The Stereocomparator as presently designed includes an ASR 35
ITT Teletype unit with paper tape punch and reader. This combination processes
information at the rate of ten (10) characters per second, which while adequate
for system information, would not be satisfactory for program read in or dump,
or for major program update schedules.

For example, the time required to load the FORTRAN systems and
the Input/Output library object tapes would be in the range of 32 to 45 minutes.
In addition, the time spent in read in and dump during testing of a new or updated
program results in hours, or even weeks, of additional programmer personnel time.

The provision of a suitable high speed Reader/Punch is thus
virtually essential when programmer efficiency is considered.

25X1 A further advantage to this proposal is that the added equipment
makes the [redacted] DDP 516 computer available as a functioning separate,
general purpose computer with a 16K memory core.

The device consists of two separate units with the necessary
interconnecting and input/output cables.

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10/8/68 - Continued

Page 2.

25X1 The tape unit consists of a [] photoelectric reader with an [] Teletype punch in a [] table top enclosure. The reading speed is 300 characters per second, and the punch speed is 110 characters per second. A standard 8-level code is read or punched in one inch wide lubricated paper or Mylar tape, with a minimum opacity of 40%.

The Interface unit consists of a solid state circuitry in a chassis arranged for mounting in the rear of a standard 19-inch rack.

The chassis circuitry includes the necessary power supplies to operate the logic components.

The logic assemblies include the following functions:

1. Isolation of the Reader/Punch from the computer output, input, address and control lines to maintain the critical impedance and loading characteristics of the computer system.
2. Perform address decoding to enable the computer to issue commands and recognize data from the Reader/Punch.
3. Supply synchronization and timing signals as necessary to make the high clock rate of the computer compatible with the Reader/Punch strobe rates.
4. Provide necessary line drivers and receivers with cable so that the Reader/Punch can be moved about in the work area as conveniently as possible.
5. Shift voltage levels to make the Reader/Punch logic compatible with the computer.

Connectors and cables are provided to interconnect the computer, the rack cabinets, the Reader/Punch and the interface chassis.

If additional information is required regarding the above quotation, please do not hesitate to contact us.

BCJ:jm

25X1
[]
Administration Manager

Year	Percentage of Population in Labor Force
1950	55
1955	65
1960	60
1965	70
1970	75

SECRET

IEG-328-68
13 November 1968

MEMORANDUM FOR: Chief, Technical Services & Support Group, NPIC
ATTENTION: Chief, Development & Engineering Division, TSSG
SUBJECT: Purchase of High Speed Tape Reader/Punch for the
High Precision Stereo Comparator [redacted]

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1. The HPSC being built by [redacted] includes an ASR-35 [redacted] Teletype unit with paper tape punch and reader. A paper tape punch/reader is a necessity for input and output to the [redacted] DDP 516 computer associated with the comparator. The ASR-35 unit processes at the rate of 10 characters per second and is proving to be slow for the task. In their testing of the [redacted] computer and development of the software, [redacted] has found it necessary to utilize a higher speed input/output paper tape unit to enter the programs and make modifications to the programs. } *learned?*

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2. This matter was discussed with [redacted] personnel during the visit of PHD personnel to the [redacted] plant in October. There is good reason to question the adequacy of the initially designed unit to meet the operational requirements of the instrument. PHD, in its production operations will be required to enter the appropriate program for each mensuration project to be performed by the HPSC. Also, PHD will be making modifications to the initial programs and writing new programs to accommodate other collection systems. PHD personnel are currently being trained to understand the software programs to be provided by [redacted] with the instrument and to develop the capability for modifying and adding programs in the future. PHD personnel have studied the input/output needs and have decided that it is highly desirable to replace the present unit with a high speed tape reader/punch. There is no paper tape reader/punch capability available within NPIC that will perform this function.

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3. It is recommended that the contract with [redacted] be amended to include a high speed tape reader/punch. It is felt that such a capability will be needed in the future even if the slow speed unit might serve initially. Therefore, it is deemed advisable to

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IEG-328-68

SUBJECT: Purchase of High Speed Tape Reader/Punch for the
High Precision Stereo Comparator [redacted]

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include the high speed unit at this time so that inter-face
with the computer can be performed more effectively at the [redacted]
plant in this stage of fabrication and that the price of [redacted]
quoted by [redacted] will be considerably cheaper than to make the change } ok
at a late date after installation at NPIC.

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Colonel, USA
Imagery Exploitation Group, NPIC

Distribution:

- Orig. & 1 - NPIC/TSSG
- 2 - NPIC/IEG
- 2 - NPIC/IEG/PHD

~~SECRET~~

16/2/2
TSSG/DED

NOV 25 11 27 AM '68

61-003-44
NPIC PROJECT NO.
100/PHS/AC E-70
RESPONSE REQUIREDSECRET
CLASSIFICATION
(CONFIDENTIAL WHEN NOT FILLED IN)

RECEIPT RE/OS

SUPPORT/SERVICE REQUIREMENT

DISSEMINATED RB/OS

(The following info is required when rqmts are levied by external organizations)

OFFICE _____ DATE OF RQMT _____ CONTROL NO. _____
NPIC DIV/DETACH PROCESSING RQMT _____ PROJ OFF _____ PHONE _____
SUPPORT REQUESTED OF _____ PRIORITY _____ DATE REQUIRED _____

(The following info is required when rqmts are levied for internal support)

25X1

DIV/STAFF ^{100/}PHD/AB _____ DATE OF RQMT 25 Nov 68 _____ CONTROL NO. _____
SUPPORT REQUESTED OF TSSG/DED TSSG/AFSD/ISAB _____ PROJ OFF [REDACTED]
PRIORITY 1 _____ DATE REQUIRED 30 June 69

1. BACKGROUND INFORMATION:

The work requested is in support of a National _____ : _____ Photo interpretation project.
☒ Non-photo interpretation project. It will result in: _____ Hard copy report;
☐ Informal report (memo); ☒ Basic service only.

Project Description: To provide technical assistance in the development of the High Precision Stereocomparator and to conduct necessary preparations for receipt of the instrument in PHD.

2. SPECIFIC SUPPORT/SERVICE REQUESTED: Support from NPIC will probably consist of:
____ Photographic; _____ Reproduction; _____ Mensuration; _____ Graphics; _____ ADP; _____ Editing;
____ Other (explain below) -- (Include statement as to estimated amount of work required of support component(s); i.e., number of contact prints, enlargements, boards, etc.)

3. URGENCY JUSTIFICATION: (If immediate support is required a statement of justification must be made on this form.)

DATE OF COMPLETION _____

SECRET
CLASSIFICATION

(CONFIDENTIAL WHEN NOT FILLED IN)

NPIC FM 218 (Revised 5-65)

SECRET

Approved For Release 2003/12/04 : CIA-RDP78B05171A000100010082-8

R & D CATALOG FORM		DATE
1. PROJECT TITLE/CODE NAME Change in Scope High Precision Stereo Comparator		8 November 1968
2. SHORT PROJECT DESCRIPTION Provide a High Speed Tape Reader/Punch to the High Precision Stereo Comparator System		
3. CONTRACTOR NAME		4. LOCATION OF CONTRACTOR
5. CLASS OF CONTRACTOR Manufacturer		6. TYPE OF CONTRACT Fixed Price
7. FUNDS FY 19 \$		9. BUDGET PROJECT NO. NP-P-3-11038
FY 19 69		11. SECURITY CLASS. A.A. - Confidential T. - Unclassified W. - Unclassified
FY 19 \$		10. EFFECTIVE CONTRACT DATE (Begin - end) 15 January 69 - 1 May 1969
12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION DDI/NPIC/TSSG		
13. REQUIREMENT/AUTHORITY This change in scope will add to the versatility of the Stereo Comparator and improve programmer efficiency.		
14. TYPE OF WORK TO BE DONE Purchase a High Speed Tape Reader/Punch, logic, and power pack; and incorporate it into the stereo comparator system.		
15. CATEGORIES OF EFFORT		
MAJOR CATEGORY	SUB-CATEGORIES	
Precision Measurement	Digital Computers	
16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC. This will provide a high speed input/output link to the computer. This will provide a capability of reading 300 characters and punching 110 characters per second vs. 10 characters input/output for the standard ASR 35 teletype unit.		
17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION This change in scope is in support of Contract for the fabrication of a high precision stereo comparator.		
18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required) The high speed unit will be used for rapid loading of computer programs for the various camera systems, compiling and assembling new programs for future systems, updating programs as math models become available for present systems, and for trouble shooting during computer failures.		
19. APPROVED BY AND DATE		
OFFICE	DEPUTY DIRECTOR	DDCI

Approved For Release 2003/12/04 : CIA-RDP78B05171A000100010082-8

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High Speed Output Scope Unit

Change of Scope

25X1

